

Sequence Listing

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Benner, Robert

<120> Gene regulator

<130> 2183-5223US

<140> 10/028,075

<141> 2001-12-21

<150> EP 01203748.7

<151> 2001-10-04

<160> 312

<170> PatentIn Ver. 2.1

<210> 1

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Leu Gln Gly Val

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<223> Description of Artificial Sequence: oligopeptide

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Ala Gln Gly Val

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<220>

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Val Leu Pro Ala Leu Pro

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 Val Leu Pro Ala Leu

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Leu Ala Gly Val
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<210> 32
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 Val Val Cys Asn Tyr Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro
 1 5 10 15

 Gly Cys Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu
 20 25 30

 Ser Cys Gln Cys Ala Leu
 35

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 Pro Ser
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Leu Pro Gly Cys Pro Arg Gly Val Asn Pro Val Val Ser
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<210> 45

<211> 35
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 composition of the invention

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 20 25 30
 Cys Pro Thr
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 composition of the invention

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 Cys Ala Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp
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 His Pro Leu Thr Cys
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<210> 47
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 composition of the invention

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 1 5 10 15
 Thr Cys

<210> 48
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composition of the invention

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Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
20 25 30

Pro Ile Leu Pro Gln
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<210> 49

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composition of the invention

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<210> 51

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represent the NF-kappaB binding sequence

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<210> 52

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<210> 55
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 <210> 61
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Leu Pro Glu Leu
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pdb/1GLU/1GLU-A

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Met Thr Arg Ile
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 <210> 67
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 Pro Thr Leu Pro
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 <210> 69
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Pro Glu Leu Pro
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Pro Ala Ala Pro Gln
1 5

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Pro Ala Ala Pro Gln Val

1 5

<210> 75
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 Leu Pro Ala Leu
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 Pro Ala Leu Pro
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 Pro Ala Leu Pro Glu
 1 5

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 1 5

<210> 79
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Pro Pro Pro Ala Leu Pro Pro Lys Lys Arg
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<210> 80

<211> 4

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Leu Pro Pro Leu
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<211> 4

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Pro Pro Leu Pro
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<210> 82

<211> 4

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Leu Pro Gly Leu
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<211> 4

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pdb/1GJS/1GJS-A

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Leu Ala Ala Leu
1

<210> 84
 <211> 5
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 Leu Ala Ala Leu Pro
 1 5

 <210> 85
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 <210> 86
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 1 5

 <210> 87
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 <220>
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 Met Leu Pro Ala Val Pro
 1 5

 <210> 88
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 Pro Cys Leu Pro
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 <211> 5
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 pdb/1HSS/1HSS-A

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 Val Pro Ala Leu Pro
 1 5

 <210> 91
 <211> 4
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 pdb/1PRX/1PRX-A

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 Pro Thr Ile Pro
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 <210> 92
 <211> 6
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 <220>
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 pdb/1PRX/1PRX-A

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 Val Leu Pro Thr Ile Pro
 1 5

<210> 93
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 Val Leu Pro Gly Phe Pro
 1 5

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 1

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 <211> 5
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 pdb/1GER/1GER-A

 <400> 95
 Leu Pro Ala Leu Pro
 1 5

 <210> 96
 <211> 5
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 1 5

 <210> 97
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 <400> 97
 Met Xaa Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val
 1 5 10 15

Cys

<210> 98
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Cys

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 Lys Val Ile Gln Gly Ser Leu Asp Ser Leu Pro Gln Ala Val
 1 5 10

 <210> 102
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 Leu Asp Ser Leu
 1

 <210> 103
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 Val Leu Gln Ala Ile Leu Pro Ser Ala Pro Gln
 1 5 10

 <210> 104
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 <400> 104
 Leu Gln Ala Ile Leu
 1 5

 <210> 105
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Pro Ser Ala Pro

1

<210> 106

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<223> Description of Artificial Sequence: Hs.63758.4

<400> 106

Lys Val Leu Gln Gly Arg Leu Pro Ala Val Ala Gln Ala Val

1

5

10

<210> 107

<211> 4

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Leu Pro Ala Val

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<210> 108

<211> 14

<212> PRT

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Leu Val Gln Lys Val Val Pro Met Leu Pro Arg Leu Leu Cys

1

5

10

<210> 109

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Mm.129320.2

<400> 109

Leu Pro Arg Leu

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<210> 110

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Mm.129320.2

<400> 110
Pro Met Leu Pro
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<210> 111
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<220>
<223> Description of Artificial Sequence: Mm.22430.1

<400> 111
Pro Ser Ala Pro Gln
1 5

<210> 112
<211> 11
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<220>
<223> Description of Artificial Sequence: P20155

<400> 112
Leu Pro Gly Cys Pro Arg His Phe Asn Pro Val
1 5 10

<210> 113
<211> 11
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<220>
<223> Description of Artificial Sequence: Rn.2337.1

<400> 113
Leu Val Gly Cys Pro Arg Asp Tyr Asp Pro Val
1 5 10

<210> 114
<211> 4
<212> PRT
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<220>
<223> Description of Artificial Sequence: Rn.2337.1

<400> 114
Leu Val Gly Cys
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<210> 115
<211> 6
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Hs.297775.1

<400> 115

Pro Gly Cys Pro Arg Gly
1 5

<210> 116

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Mm.1359.1

<400> 116

Leu Pro Gly Cys Pro
1 5

<210> 117

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
sptrembl/056177/056177

<400> 117

Val Leu Pro Ala Ala Pro
1 5

<210> 118

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence:
sptrembl/Q9W234/Q9W234

<400> 118

Leu Ala Gly Thr Ile Pro Ala Thr Pro
1 5

<210> 119

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
sptrembl/Q9W234/Q9W234

<400> 119

Pro Ala Thr Pro

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<210> 120
 <211> 7
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<220>
 <223> Description of Artificial Sequence:
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 Gly Leu Leu Pro Cys Leu Pro
 1 5

<210> 121
 <211> 4
 <212> PRT
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<220>
 <223> Description of Artificial Sequence:
 sptrembl/Q9PVW5/Q9PVW5

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 Pro Gly Ala Pro
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<210> 122
 <211> 10
 <212> PRT
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<220>
 <223> Description of Artificial Sequence:
 sptrembl/Q9PVW5/Q9PVW5

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 Leu Pro Gln Arg Pro Arg Gly Pro Asn Pro
 1 5 10

<210> 123
 <211> 4
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<220>
 <223> Description of Artificial Sequence:
 sptrembl/Q9PVW5/Q9PVW5

<400> 123
 Pro Arg Gly Pro
 1

<210> 124
 <211> 4
 <212> PRT

<213> Artificial Sequence
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 <223> Description of Artificial Sequence: Hs.303116.2
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 Gly Cys Pro Arg
 1
 <210> 125
 <211> 6
 <212> PRT
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 <223> Description of Artificial Sequence:
 pdb/1DU3/1DU3-A
 <400> 125
 Gly Cys Pro Arg Gly Met
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 210> 126
 <211> 4
 <212> PRT
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 <400> 126
 Leu Gln His Val
 1
 <210> 127
 <211> 4
 <212> PRT
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 <223> Description of Artificial Sequence:
 pdb/1FL7/1FL7-B
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 Val Pro Gly Cys
 1
 <210> 128
 <211> 4
 <212> PRT
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 pdb/1HR6/1HR6-A
 <400> 128

Cys Pro Arg Gly

1

<210> 129

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: pdb/1H6/1HR6-A

<400> 129

Leu Lys Gly Cys

1

<210> 130

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: pdb/1BFA/1BFA

<400> 130

Pro Pro Gly Pro

1

<210> 131

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: pdb/1BFA/1BFA

<400> 131

Leu Pro Gly Cys Pro Arg Glu Val

1

5

<210> 132

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: pdb/1BFA/1BFA

<400> 132

Cys Pro Arg Glu

1

<210> 133

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
swissnew/P01229/LSHB HUMAN

<400> 133

Met Met Arg Val Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val
1 5 10 15

Cys

<210> 134

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
swissnew/P01229/LSHB HUMAN

<400> 134

Met Met Arg Val
1

<210> 135

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
swissnew/P01229/LSHB HUMAN

<400> 135

Val Leu Pro Pro Leu Pro
1 5

<210> 136

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
swissnew/P01229/LSHB HUMAN

<400> 136

Val Leu Pro Pro Leu Pro Gln
1 5

<210> 137

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
swissnew/P01229/LSHB HUMAN

<400> 137
Ala Val Leu Pro Pro Leu Pro
1 5

<210> 138
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
swissnew/P01229/LSHB HUMAN

<400> 138
Ala Val Leu Pro Pro Leu Pro Gln
1 5

<210> 139
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
swissnew/P07434/CGHB PAPAN

<400> 139
Met Met Arg Val Leu Gln Ala Val Leu Pro Pro Val Pro Gln Val Val
1 5 10 15

Cys

<210> 140
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
swissnew/P07434/CGHB PAPAN

<400> 140
Leu Gln Ala Gly
1

<210> 141
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
swissnew/P07434/CGHB PAPAN

<400> 141

Val Leu Pro Pro Val Pro
1 5

<210> 142
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence:
swissnew/P07434/CGHB PAPAN

<400> 142
Val Leu Pro Pro Val Pro Gln
1 5

<210> 143
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
swissnew/P07434/CGHB PAPAN

<400> 143
Ala Val Leu Pro Pro Val Pro
1 5

<210> 144
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
swissnew/P07434/CGHB PAPAN

<400> 144
Ala Val Leu Pro Pro Val Pro Gln
1 5

<210> 145
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
swissnew/Q28376/TSHB HORSE

<400> 145

Met Thr Arg Asp
1

<210> 146

<211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 swissnew/Q28376/TSHB HORSE

 <400> 146
 Gln Asp Val Cys
 1

 <210> 147
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 swissnew/Q28376/TSHB HORSE

 <400> 147
 Ile Pro Gly Cys
 1

 <210> 148
 <211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 sptrembl/Q9Z284/Q9Z284

 <400> 148
 Pro Ala Leu Pro Ser
 1 5

 <210> 149
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 sptrembl/Q9UCG8/Q9UCG8

 <400> 149
 Leu Pro Gly Gly Pro Arg
 1 5

 <210> 150
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 sptrembl/Q9UCG8/Q9UCG8

 <400> 150
 Leu Pro Gly Gly
 1

 <210> 151
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 sptrembl/Q9UCG8/Q9UCG8

 <400> 151
 Gly Gly Pro Arg
 1

 <210> 152
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: XP_028754

 <400> 152
 Leu Gln Arg Gly
 1

 <210> 153
 <211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: XP_028754

 <400> 153
 Leu Gln Arg Gly Val
 1 5

 <210> 154
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: XP_028754

 <400> 154
 Leu Gly Gln Leu
 1

<210> 155
 <211> 13
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: SignalP (CBS)

 <400> 155
 Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro
 1 5 10

 <210> 156
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HLA molecule
 type I (A_0201)

 <400> 156
 Val Leu Gln Gly Val Leu Pro Ala Leu
 1 5

 <210> 157
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HLA molecule
 type I (A_0201)

 <400> 157
 Gly Val Leu Pro Ala Leu Pro Gln Val
 1 5

 <210> 158
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HLA molecule
 type I (A_0201)

 <400> 158
 Val Leu Pro Ala Leu Pro Gln Val Val
 1 5

 <210> 159
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: HLA molecule
 type I (A_0201)

 <400> 159
 Arg Leu Pro Gly Cys Pro Arg Gly Val
 1 5

 <210> 160
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HLA molecule
 type I (A_0201)

 <400> 160
 Thr Met Thr Arg Val Leu Gln Gly Val
 1 5

 <210> 161
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: MHC II (H2-Ak
 15-mers)

 <400> 161
 Cys Pro Thr Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu
 1 5 10 15

 <210> 162
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: MHC II (H2-Ak
 15-mers)

 <400> 162
 Pro Gly Cys Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val
 1 5 10 15

 <210> 163
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HLA-DRB1*0101
 15-mers

 <400> 163

Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser
 1 5 10 15

<210> 164

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HLA-DRB1*0101
 15-mers

<400> 164

Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val
 1 5 10 15

<210> 165

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HLA-DRB1*0101
 15-mers

<400> 165

Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr
 1 5 10 15

<210> 166

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HLA-DRB1*0301
 (DR17) 15-mers

<400> 166

Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val
 1 5 10 15

<210> 167

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HLA-DRB1*0301
 (DR17) 15-mers

<400> 167

Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val Asn Pro Val Val
 1 5 10 15

<210> 168

<211> 7

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NMPF-56
 peptide

 <400> 168
 Val Ala Pro Ala Leu Pro Gln
 1 5

 <210> 169
 <211> 35
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NMPF-62
 peptide

 <400> 169
 Val Val Cys Asn Tyr Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro
 1 5 10 15

 Gly Cys Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu
 20 25 30

 Ser Cys Gly
 35

 <210> 170
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NMPF-67
 peptide

 <400> 170
 Cys Pro Arg Gly Val Asn Pro
 1 5

 <210> 171
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: NMPF-70
 peptide

 <400> 171
 Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln
 1 5 10

<210> 172
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NMPF-75
peptide

<400> 172
Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly
1 5 10 15

Pro Cys

<210> 173
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NMPF-56
peptide

<400> 173
Val Ala Pro Ala Leu Pro Gln
1 5

<210> 174
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NMPF-71
peptide

<400> 174
Met Thr Arg Val Leu Pro Gly Val Leu Pro Ala Leu Pro Gln Val Val
1 5 10 15

Cys

<210> 175
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: NMPF peptide

<400> 175
Cys Arg Gly Val Asn Pro Val Val Ser
1 5

<210> 176

<211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide

 <400> 176
 Met Thr Arg Val
 1

 <210> 177
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide

 <400> 177
 Thr Arg Val Leu
 1

 <210> 178
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide

 <400> 178
 Arg Val Leu Gln
 1

 <210> 179
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide

 <400> 179
 Val Leu Gln Gly
 1

 <210> 180
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide

 <400> 180

Gln Gly Val Leu

1

<210> 181

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide

<400> 181

Gly Val Leu Pro

1

<210> 182

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide

<400> 182

Val Leu Pro Ala

1

<210> 183

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide

<400> 183

Leu Pro Ala Leu

1

<210> 184

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide

<400> 184

Pro Ala Leu Pro

1

<210> 185

<211> 4

<212> PRT

<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: derivative peptide

 <400> 185
 Gln Val Val Cys
 1

 <210> 186
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide based on C-
 Reactive Protein

 <400> 186
 Leu Thr Ser Leu
 1

 <210> 187
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide based on C-
 Reactive Protein

 <400> 187
 Phe Val Leu Ser
 1

 <210> 188
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide based on C-
 Reactive Protein

 <400> 188
 Asn Met Trp Asp
 1

 <210> 189
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: derivative peptide based on C-
 Reactive Protein

 <400> 189
 Leu Cys Phe Leu

1

<210> 190
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on C-Reactive Protein

<400> 190
Met Trp Asp Phe
1

<210> 191
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on C-Reactive Protein

<400> 191
Phe Ser Tyr Ala
1

<210> 192
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on C-Reactive Protein

<400> 192
Phe Trp Val Asp
1

<210> 193
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on C-Reactive Protein

<400> 193
Ala Phe Thr Val
1

<210> 194
<211> 4
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on C-Reactive Protein

<400> 194

Trp Asp Phe Val

1

<210> 195

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 195

Gly Leu Leu Gly

1

<210> 196.

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 196

Thr Ala Pro Ser

1

<210> 197

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 197

Val Cys Gln Val

1

<210> 198

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 198
Cys Leu Trp Thr
1

<210> 199
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 199
Val His Gln Leu
1

<210> 200
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 200
Gly Ala Leu His
1

<210> 201
<211> 4
<212> PRT
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<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 201
Leu Gly Thr Leu
1

<210> 202
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 202
Thr Leu Val Gln

1

<210> 203
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 203
Gln Leu Leu Gly
1

<210> 204
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 204
tyr Ala Ile Thr
1

<210> 205
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 205
Leu Cys Glu Leu
1

<210> 206
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 206
Gly Leu Ile Arg
1

<210> 207
<211> 4
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 207

Asp Pro Ser Leu

1

<210> 208

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 208

Ile Thr Thr Leu

1

<210> 209

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 209

Gln Ala Leu Gly

1

<210> 210

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 210

His Pro Pro Ser

1

<210> 211

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 211
Gly Val Leu Cys
1

<210> 212
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 212
Leu Cys Pro Ala
1

<210> 213
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 213
Leu Phe Tyr Ala
1

<210> 214
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 214
Asn Ile Met Arg
1

<210> 215
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 215
Asn Leu Ile Asn
1

<210> 216
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 216
Leu His Pro Pro
1

<210> 217
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 217
Leu Thr Glu Leu
1

<210> 218
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 218
Ser Pro Ile Glu
1

<210> 219
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: derivative peptide based on beta-catenin

<400> 219
Val Gly Gly Ile
1

<210> 220
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: derivative peptide based on beta-catenin

 <400> 220
 Gln Leu Leu Tyr
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Tyr Ala Met Thr

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Leu His Asn Leu

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<210> 226

<211> 4

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Tyr Val Leu Arg

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Leu Phe Tyr Ala

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<211> 9

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Gly Leu Leu Leu Leu Leu Leu Ser

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<210> 229

<211> 6

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 Thr trp Ala Ser
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Phe Glu Ser Ile
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Arg Leu Pro Gly
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Asn Pro Val Val Ser

1 5

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Val Ser Tyr Ala

1

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Gly Val Leu Pro

1

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1

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Ala Val Ala Leu

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Phe Ile Leu Glu

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Thr Phe Leu Lys

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<210> 258

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Phe Trp Ile Asp

1

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Leu Asn Thr Phe

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Ala Thr Phe Trp

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Phe Ser Pro Ile

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Lys Phe Phe Gly
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Leu Gln Gly Val Val Pro

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Leu Asp Ala Leu Pro

1 5

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<223> Description of Artificial Sequence: derivative peptide

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Leu Gln Thr Val

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Val Leu Pro Ala Leu

1 5

<210> 307

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Leu Val Leu Gln Thr Val Leu Pro Ala Leu

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Ile Gln gly Leu

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Leu Pro Lys Leu

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Leu Leu Pro Lys Leu

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Pro Ala Val Pro

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Met Met Arg Val Leu Gln Ala Val Leu Pro Pro Val Pro Gln Val Val

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10

15